

ABSTRACT

The method of manufacturing porous glass base material for optical fiber includes that flame-hydrolyzing raw materials for glass in oxyhydrogen flame, depositing the generated glass fine particles on a rotating target to form porous glass base material, dehydrating and sintering the porous glass base material to transform into clear glass. The method features, in terms of the surface temperature of said porous glass base material, which changes as the burner used for depositing glass fine particle is moved relatively to said target, the temperature difference between the surface temperature of the porous glass base material touching the burner flame T_a and the surface temperature of the porous glass base material before touching the flame T_b , that is $T_a - T_b$, is adjusted to be within the range from 200 to 700 degrees centigrade.